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PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Harri LEHTONEN et al.

Group Art Unit: 3725

Application No.: 10/669,746

Filed: September 25, 2003

Docket No.: 115097.02

For: METHOD FOR SECURING A DIE PLATE OF A JAW CRUSHER, AND A JAW CRUSHER

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR §1.56, the attention of the Patent and Trademark Office is hereby directed to the reference(s) listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

- ☒ 1. This Information Disclosure Statement is being filed (a) within three months of the U.S. filing date of this non-CPA application, OR (b) before the mailing date of a first Office Action on the merits in the present application. No certification or fee is required.
- ☒ 2. A Statement of Relevance is attached regarding the attached references.

Respectfully submitted,

James A. Oliff
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JAO:JAN/cmf

Date: July 30, 2004

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Sheet 1 of 1Form PTO-1449
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PATENT & TRADEMARK OFFICEATTY DOCKET NO.
115097.02APPLICATION NO.
10/669,746

INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

APPLICANT(S)
Harri LEHTONEN et al.FILING DATE
September 25, 2003GROUP
3725

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB CLASS

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB CLASS
		JP-A-57-12836	01/22/82	Japan		
		JP-U-5-88635	03/12/93	Japan		
		JP-U-59-61849	04/23/84	Japan		

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, etc.)

EXAMINER

DATE CONSIDERED

Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Date: July 30, 2004



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STATEMENT OF RELEVANCE

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P.O. Box 1450
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Sir:

Attached are three cited publications and the following is a brief statement of the relevance of each reference provided by Applicants' Japanese counsel in connection with a Japanese Office Action.

1. JP-A-57-12836

In Figs. 1, 6, 14 and 19, a crush jaw 4 and a movable crush jaw 6 traverse cross sections of which are formed to be recessed faces, are disclosed. These crush jaws are secured to a frame 1 or a jaw stock 2 by wedge shaped clamps 3 and 5.

By this constitution, the crush jaws 4 and 6 are held by operating friction to a joint face between the crusher jaws 4 and 6 and the frame 1 of the jaw stock 2, by the wedge-shaped clamps 3 and 5.

2. JP-U-5-88635

This reference discloses a jaw crusher which has a structure for preventing friction at a frame to which a stationary tooth is fitted, and aims at easy detaching and attaching operation. Projected edges 31 and 32 are provided along upper and lower ends at rear face side of a stationary tooth 30, and a distance a between an inner face 31a of the projected edge 31 and an inner face 32a of the projected edges is formed to be wider than an upper and lower width b at inner end face of a frame 1. Notch portions 33 having the same shaped inclined faces are provided at both ends of the projected edges 31 and 32. Cotters (wedge-shaped fastening pieces) 34 are provided at both ends of the upper and lower portions of the stationary plate 11. As a result, when nuts 34c are fastened, the respective cotters 34 are pressed against the inclined faces 33a of the notch portion 33, thereby firmly securing the stationary tooth 30 to the stationary plate 11.

Fig. 1 is a view showing the stationary tooth side of the jaw crusher.

Figs. 2 and 3 are views showing the states before the stationary tooth is secured and after the stationary tooth is secured.

Fig. 4 is a cross sectional view of the jaw crusher.

Figs. 5 and 6 are prior art showing different structures of fitting the stationary tooth.

3. JP-U-59-61849

This reference discloses a structure of fixing a swing jaw plate. The cited references describes prior art, on page 3, lines 11-18, in which "by pressing a swing jaw plate 1 to a tapered receiving portion 13 provided at the lower end of a swing jaw 9 and continuing in the horizontal direction, the swing jaw plate 1 is meshed with the tapered face 13 by using the wedging action of the tapered face 13 so as to hold and secure the swing jaw plate 1 between the tapered face 13 and a tapered face 14 of a wedge 11".

Fig. 1 is a whole view of the jaw crusher.

Figs. 2 and 3 are, respectively, a plain view and a front view of the swing jaw plate.

Figs. 4 and 5 are, respectively, a cross sectional view taken along A-A line and a cross sectional view taken along B-B line.

Respectfully submitted,



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